

Eric Z. Sinsky

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301-683-0532

EDUCATION:

8/2014-5/2016 **M.S.**, Oceanography, University of Connecticut.

9/2010-5/2014 **B.S.**, Marine Science, Physical Oceanography Option, Rutgers University, Minor in Mathematics and Meteorology.

PROFESSIONAL EXPERIENCE:

Support Scientist, Environmental Modeling Center, National Oceanic and Atmospheric Administration

I.M. Systems Group

September 2016 – Present

I work for a team that performs research on ensemble. I run, maintain and distribute the Global Ensemble Forecast System (GEFS) Version 12 reforecasts. In addition, I study model errors and uncertainty for forecast calibration.

Graduate Assistant, Department of Marine Sciences, University of Connecticut

August 2014-May 2016

I worked with the WRF mesoscale model to study the effects the Long Island Sound has on Connecticut sea breezes under Dr. Kelly Lombardo.

Research Assistant/Intern, Institute of Marine and Coastal Sciences, Rutgers University

June 2012-August 2014

I analyzed multiple CMIP5 climate models such as NOAA GDFL, NASA GISS and NCAR CCSM4 to study elevation-dependent warming with a team of post docs and research scientists under Dr. James Miller.

TEACHING EXPERIENCE:

Introduction to Coastal Meteorology, Teaching Assistant

Spring 2016

Department of Marine Sciences, University of Connecticut

Supervisor: Dr. Kelly Lombardo

Physical Oceanography, Teaching Assistant

Fall 2015

Department of Marine Sciences, University of Connecticut

Supervisor: Dr. Michael Whitney

River Influences on the Marine Environment, *Teaching Assistant*

Spring 2015

Department of Marine Sciences, University of Connecticut

Supervisor: Dr. Michael Whitney

PEER-REVIEWED JOURNAL PUBLICATIONS:

Lombardo, K., **E. Sinsky**, Y. Jia, M. Whitney, and J. Edson, "Sensitivity of Simulated Sea Breezes to Initial Conditions in Complex Coastal Regions". *Monthly Weather Review*, 144(4), 2016.

Rangwala, I., **E. Sinsky**, and J. Miller, "Variability in projected elevation dependent warming in boreal midlatitude winter in CMIP5 climate models and its potential drivers". *Climate Dynamics*, 1-8, 2015.

Ghatak, D., **E. Sinsky**, and J. Miller, "Role of snow-albedo feedback in higher elevation warming over the Himalayas, Tibetan Plateau and Central Asia," *Environmental Research Letters*, 9(11), 114008, 2014.

Rangwala, I., **E. Sinsky**, and J. Miller, "Amplified warming projections for high altitude regions of the northern hemisphere mid-latitudes from CMIP5 models," *Environmental Research Letters*, 8(2), 024040, 2013.

CONFERENCE PRESENTATIONS:

Sinsky, E., K. Lombardo, J. Edson, and M. Whitney, "The Impact of Horizontal Sea Surface Temperature Gradients on Long Island Sound Sea Breezes," Poster Presentation, *AGU/ASLO Ocean Sciences Meeting*, New Orleans, LA, February 2016.

Rangwala, I., J. Miller, C. Naud, **E. Sinsky**, D. Ghatak, and Y. Chen, "The Understanding of Elevation Dependent Warming from Climate Models", Oral Presentation, *AGU Fall Meeting*, San Francisco, CA, December 2015.

Lombardo, K., **E. Sinsky**, Y. Jia, M. Whitney, and J. B. Edson, "Sensitivity of simulated sea breezes to initial conditions", Oral Presentation, *American Meteorological Society - Twenty-seventh Conference on Weather Analysis and Forecasting/Twenty-third Conference on Numerical Weather Prediction*, Chicago IL, July 2015.

Naud, C., J. Miller, Y. Chen, D. Ghatak, I. Rangwala, **E. Sinsky**, and M. Xu, "The Impact of Changes in Water Vapor, Clouds, and Snow Cover on Elevation Dependent Warming", Oral Presentation, *AGU Fall meeting*, San Francisco, California, December 2014.

Miller, J., C. Naud, Y. Chen, D. Ghatak, I. Rangwala, and **E. Sinsky**, “Amplified Warming Rates in High Elevation Regions”, Oral Presentation, *EGU General Assembly*, Vienna, Austria, April 2014.

Sinsky, E., D. Ghatak, and J. Miller, “Impacts of Snow-Albedo Feedback in the Tibetan Plateau, Himalayas and Central Asia”, Poster Presentation, *American Meteorological Society 13th Annual Student Conference*, Atlanta, GA, February 2014.

Ghatak, D., **E. Sinsky**, and J. Miller, “Role of Snow-Albedo Feedback in High Elevation Warming”, Poster Presentation, *AGU Fall Meeting*, San Francisco, CA, December 2013.

Rangwala, I., **E. Sinsky**, and J. Miller, “Amplified Warming Projections For High Elevation Regions From CMIP5 Models”, Poster Presentation, *AGU Fall Meeting*, San Francisco, CA, December 2013.

Sinsky, E., D. Ghatak, and J. Miller, “Examining Elevation Sensitive Warming In Global Climate Models”, Poster Presentation, *9th Rutgers Climate Symposium*, New Brunswick, NJ, November 2012.

AWARDS AND HONORS:

Aresty Research Assistant Program	2012-2013
Deans List, School of Environmental and Biological Sciences	2012
Marine Sciences Student Activity Fund Travel Award	2016

PROFESSIONAL AFFILIATIONS:

American Geophysical Union, <i>Student Member</i>	2012-present
American Meteorological Society, <i>Student Member</i>	2012-present

SKILLS:

Programming: NCL, MPI, MATLAB, Python, Fortran, C++

Software: WRF, COAWST, ROMS, NetCDF, Ocean Data View, Gempak, Excel, Word, Maple, PowerPoint, Adobe Photoshop

Operating Systems: Linux, Windows